

## **DG2 - Lubrication: Fluid Film Bearings: operation, maintenance, troubleshooting**

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### Turbomachinery bearings

- Sleeve and tilting pad journal bearings

- Thrust bearings

- Babbitt bearing failures

### Bearing upgrades

- Clearances, preload, offset

- Installation

- Oil

### Specific questions

- Journal bearing fit – loose? Line on line? Or some crush?

- Discuss API temperature sensor placement:

  - Journal – how many per bearing? Axial locations?

  - Thrust – how many?

- TPJ No. of pads & orientation – LOP or LBP?

- TPJ Pivot design

  - Experience with pivot wear?

  - Experience with Ball & Socket pivots?

### Locking issues?

- Alarm and shut down values

  - Bearing temperature

  - Rotor movement

- Varnish experiences?

  - Solutions?

- Oil types – who is using synthetics and why?